

WHAT IS CLAIMED IS:

1. An apparatus for controlling an optical pickup, comprising adjusters which are adapted to upwardly and  
5 downwardly move the each end of the main and sub shafts supported thereto to separately control heights of the ends from a deck base, an optical pickup being mounted at its opposite ends on the main and sub shafts, whereby the parallelism and a certain distance between the optical pickup  
10 and an optical disc can be maintained by controlling tilts and heights of the main and sub shafts.

2. The apparatus as set forth in claim 1, in which each of the adjusters comprises:

15 a casing fixed to a deck base next to four corners of an opening formed at the deck base, and having an inner space open downwardly and a gate opening at its side, the inner space and the gate opening receiving an end of the main shaft or the sub shaft;

20 a spring disposed between the casing and the end of the main shaft or the sub shaft to bias the end downward;

a base plate attached to a lower surface of the casing to prevent the main shaft or the sub shaft from being separated;  
and

25 an adjustable screw tightened to the base plate to move

the end of the main and sub shafts upward.

3. An optical writing and reading apparatus, comprising:

a deck base having an opening;

5 a turntable mounted on the deck base and adapted to be rotated by a spindle motor;

a main shaft and a sub shaft disposed to both sides of the opening and being parallel to each other;

adjusters attached to the deck base to support the each  
10 end of the main and sub shafts and to move the ends upwardly and downwardly; and

an optical pickup mounted at its opposite ends on the main and sub shaft and capable of moving along the main and sub shafts.

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4. The optical writing and reading apparatus as set forth in claim 3, in which each of the adjusters comprises:

a casing fixed to a deck base next to four corners of an opening formed at the deck base, and having an inner space open  
20 downwardly and a gate opening at its side, the inner space and the gate opening receiving an end of the main shaft or the sub shaft;

a spring disposed between the casing and the end of the main shaft or the sub shaft to bias the end downward;

25 a base plate attached to a lower surface of the casing to

prevent the main shaft or the sub shaft from being separated;  
and

an adjustable screw tightened to the base plate to move  
the end of the main and sub shafts upward.

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